SEQUENCE LISTING

<110> Hsu, Daniel K.
Liu, Fu-Tong
Dowling, Christopher

<120> Galectin Expression is Induced in
Cirrhotic Liver and Hepatocellular Carcinoma

<130> DANHSU.001C1

<150> 60/129,111
<151> 1999-04-13

<150> PCT/US00/08561
<151> 2000-03-29

<160> 47

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 50
<212> PRT
<213> chicken

<400> 1
Met Gln Ala Met Lys Ala Arg Cys Trp Gln Pro His Trp Met Leu Pro
1   5   10   15
Leu Leu Pro Leu Ser Ser Pro Leu His Pro Gln Leu Ser Asp Ala Leu
            20   25   30
Pro Ala His Asn Pro Gly Ala Pro Pro Pro Gln Gly Trp Asn Arg Pro
        35   40   45
Pro Gly
    50

<210> 2
<211> 50
<212> PRT
<213> chicken

<400> 2
Pro Gly Ala Phe Pro Ala Tyr Pro Gly Tyr Pro Gly Ala Tyr Pro Gly
1   5   10   15
Ala Pro Gly Pro Tyr Pro Gly Ala Pro Gly Pro His His Gly Pro Pro
            20   25   30
Gly Pro Tyr Pro Gly Gly Pro Pro Gly Pro Tyr Pro Gly Gly Pro Pro
        35   40   45
Gly Pro
    50

<210> 3
<211> 27
<212> PRT
<213> nematode

<400> 3
Met Ser Ala Glu Glu Pro Lys Ser Tyr Pro Val Pro Tyr Arg Ser Val
1   5   10   15
Leu Gln Glu Lys Phe Glu Pro Gly Gln Thr Leu
            20   25

<210> 4
<211> 17
<212> PRT
<213> eel

<400> 4
Ser Gly Gly Leu Gln Val Lys Asn Phe Asp Phe Thr Val Gly Lys Phe
1   5   10   15
Leu

<210> 5
<211> 43
<212> PRT
<213> chicken

<400> 5
Tyr Pro Gly Gly Pro Pro Gly Pro Tyr Pro Gly Gly Pro Thr Ala Pro
1   5   10   15
Tyr Ser Glu Ala Pro Ala Ala Pro Leu Lys Val Pro Tyr Asp Leu Pro
            20   25   30
Leu Pro Ala Gly Leu Met Pro Arg Leu Leu Ile
        35   40

<210> 6
<211> 33
<212> PRT
<213> rat

<400> 6
Met Ala Tyr Val Pro Ala Pro Gly Tyr Gln Pro Thr Tyr Asn Pro Thr
1   5   10   15
Leu Pro Tyr Lys Arg Pro Ile Pro Gly Gly Leu Ser Val Gly Met Ser
            20   25   30
Ile

<210> 7
<211> 12
<212> PRT

· 2 ·

<213> mouse

<400> 7
Pro Ile Pro Gly Gly Leu Ser Val Gly Met Ser Val
1   5   10

<210> 8
<211> 18
<212> PRT
<213> human

<400> 8
Met Ala Cys Gly Leu Val Ala Ser Asn Leu Asn Leu Lys Pro Gly Glu
1   5   10   15
Cys Leu

<210> 9
<211> 33
<212> PRT
<213> human

<400> 9
Met Ala Tyr Val Pro Ala Pro Gly Tyr Gln Pro Thr Tyr Asn Pro Thr
1   5   10   15
Leu Pro Tyr Tyr Gln Pro Ile Pro Gly Gly Leu Asn Val Gly Met Ser
            20   25   30
Val

<210> 10
<211> 42
<212> PRT
<213> nematode

<400> 10
Ile Val Lys Gly Ser Thr Ile Asp Glu Ser Gln Arg Phe Thr Ile Asn
1   5   10   15
Leu His Ser Lys Thr Ala Asp Phe Ser Gly Asn Asp Val Pro Leu His
            20   25   30
Val Ser Val Arg Phe Asp Glu Gly Lys Ile
            35   40

<210> 11
<211> 41
<212> PRT
<213> eel

<400> 11
Thr Val Gly Gly Phe Ile Asn Asn Ser Pro Gln Arg Phe Ser Val Asn
1   5   10   15

Val Gly Glu Ser Met Asn Ser Leu Ser Leu His Leu Asp His Arg Phe
        20   25   30
Asn Tyr Gly Ala Asp Gln Asn Thr Ile
    35   40

<210> 12
<211> 39
<212> PRT
<213> chicken

<400> 12
Thr Ile Thr Gly Thr Val Asn Ser Asn Pro Asn Arg Phe Ser Leu Asp
1   5   10   15
Phe Lys Arg Gly Gln Asp Ile Ala Phe His Phe Asn Pro Arg Phe Lys
        20   25   30
Glu Asp His Lys Arg Val Ile
    35

<210> 13
<211> 41
<212> PRT
<213> rat

<400> 13
Tyr Ile Gln Gly Ile Ala Lys Asp Asn Met Arg Arg Phe His Val Asn
1   5   10   15
Phe Ala Val Gly Gln Asp Glu Gly Ala Asp Ile Ala Phe His Phe Asn
        20   25   30
Pro Arg Phe Asp Gly Trp Asp Lys Val
    35   40

<210> 14
<211> 41
<212> PRT
<213> mouse

<400> 14
Tyr Ile Gln Gly Met Ala Lys Glu Asn Met Arg Arg Phe His Val Asn
1   5   10   15
Phe Ala Val Gly Gln Asp Asp Gly Ala Asp Val Ala Phe His Phe Asn
        20   25   30
Pro Arg Phe Asp Gly Trp Asp Lys Val
    35   40

<210> 15
<211> 41
<212> PRT
<213> human

<400> 15
Arg Val Arg Gly Glu Val Ala Pro Asp Ala Lys Ser Phe Val Leu Asn

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              1         5          10            15
Leu Gly Lys Asp Ser Asn Asn Leu Cys Leu His Phe Asn Pro Arg Phe
           20          25           30
Asn Ala His Gly Asp Ala Asn Thr Ile
           35          40


<210> 16
<211> 41
<212> PRT
<213> human

<400> 16
Tyr Ile Gln Gly Val Ala Ser Glu His Met Lys Arg Phe Phe Val Asn
 1         5          10            15
Phe Val Val Gly Gln Asp Pro Gly Ser Asp Val Ala Phe His Phe Asn
           20          25           30
Pro Arg Phe Asp Gly Trp Asp Lys Val
           35          40


<210> 17
<211> 44
<212> PRT
<213> nematode

<400> 17
Val Leu Asn Ser Phe Ser Asn Gly Glu Trp Gly Lys Glu Glu Arg Lys
 1         5          10            15
Ser Asn Pro Ile Lys Lys Gly Asp Ser Phe Asp Ile Arg Ile Arg Ala
           20          25           30
His Asp Asp Arg Phe Gln Ile Ile Val Asp His Lys
           35          40


<210> 18
<211> 48
<212> PRT
<213> eel

<400> 18
Val Met Asn Ser Thr Leu Lys Gly Asp Asn Gly Trp Glu Thr Glu Gln
 1         5          10            15
Arg Ser Thr Asn Phe Thr Leu Ser Ala Gly Gln Tyr Phe Glu Ile Thr
           20          25           30
Leu Ser Tyr Asp Ile Asn Lys Phe Tyr Ile Asp Ile Leu Asp Gly Pro
           35          40           45


<210> 19
<211> 46
<212> PRT
<213> chicken

<400> 19
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Val Cys Asn Ser Met Phe Gln Asn Asn Trp Gly Lys Glu Glu Arg Thr
1         5           10          15
Ala Pro Arg Phe Pro Phe Glu Pro Gly Thr Pro Phe Lys Leu Gln Val
        20          25          30
Leu Cys Glu Gly Asp His Phe Lys Val Ala Val Asn Asp Ala
        35          40          45
```

```
<210> 20
<211> 45
<212> PRT
<213> rat
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```
<400> 20
Val Phe Asn Thr Met Gln Ser Gly Gln Trp Gly Lys Glu Glu Lys Lys
1         5           10          15
Lys Ser Met Pro Phe Gln Lys Gly His His Phe Glu Leu Val Phe Met
        20          25          30
Val Met Ser Glu His Tyr Lys Val Val Val Asn Gly Thr
        35          40          45
```

```
<210> 21
<211> 45
<212> PRT
<213> mouse
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```
<400> 21
Val Phe Lys Thr Met Gln Ser Gly Gln Trp Gly Lys Glu Glu Lys Lys
1         5           10          15
Lys Ser Met Pro Phe Gln Lys Gly Lys His Phe Glu Leu Val Phe Met
        20          25          30
Val Met Pro Glu His Tyr Lys Val Val Val Asn Gly Asn
        35          40          45
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<210> 22
<211> 46
<212> PRT
<213> human
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```
<400> 22
Val Cys Asn Ser Lys Asp Gly Gly Ala Trp Gly Thr Glu Gln Arg Glu
1         5           10          15
Ala Val Phe Pro Phe Gln Pro Gly Ser Val Ala Glu Val Cys Ile Thr
        20          25          30
Phe Asp Gln Ala Asn Leu Thr Val Lys Leu Pro Asp Gly Tyr
        35          40          45
```

```
<210> 23
<211> 45
<212> PRT
<213> human
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<400> 23
Val Phe Asn Thr Leu Gln Gly Gly Lys Trp Gly Ser Glu Glu Arg Lys
1   5   10   15
Arg Ser Met Pro Phe Lys Lys Gly Ala Ala Phe Glu Leu Val Phe Ile
            20   25   30
Val Met Ala Glu His Tyr Lys Val Val Val Asn Gly Asn
            35   40   45

<210> 24
<211> 34
<212> PRT
<213> nematode

<400> 24
Glu Phe Lys Asp Tyr Glu His Arg Leu Pro Leu Ser Ser Ile Ser His
1   5   10   15
Leu Ser Ile Asp Gly Asp Leu Tyr Leu Asn His Val His Trp Gly Gly
            20   25   30
Lys Tyr

<210> 25
<211> 29
<212> PRT
<213> eel

<400> 25
Asn Leu Glu Phe Pro Asn Arg Tyr Ser Lys Glu Phe Leu Pro Phe Leu
1   5   10   15
Ser Leu Ala Gly Asp Ala Arg Leu Thr Leu Val Lys Glu
            20   25

<210> 26
<211> 34
<212> PRT
<213> chicken

<400> 26
His Leu Leu Gln Phe Asn Phe Arg Glu Lys Lys Leu Asn Gly Ile Thr
1   5   10   15
Lys Leu Cys Ile Ala Gly Asp Ile Thr Leu Thr Ser Val Leu Thr Ser
            20   25   30
Met Ile

<210> 27
<211> 47
<212> PRT
<213> rat

<400> 27

Pro Phe Tyr Glu Tyr Gly His Arg Leu Pro Leu Gln Met Val Thr His
1   5   10   15
Leu Gln Val Asp Gly Asp Leu Glu Leu Gln Ser Ile Asn Phe Leu Gly
        20   25   30
Gly Gln Pro Ala Ala Ser Gln Tyr Pro Gly Thr Met Thr Ile Pro
        35   40   45

<210> 28
<211> 47
<212> PRT
<213> mouse

<400> 28
Ser Phe Tyr Glu Tyr Gly His Arg Leu Pro Val Gln Met Val Thr His
1   5   10   15
Leu Gln Val Asp Gly Asp Leu Glu Leu Gln Ser Ile Asn Phe Leu Gly
        20   25   30
Gly Gln Pro Ala Ala Ala Pro Tyr Ala Gly Ala Met Thr Ile Pro
        35   40   45

<210> 29
<211> 30
<212> PRT
<213> human

<400> 29
Glu Phe Lys Phe Pro Asn Arg Leu Asn Leu Glu Ala Ile Asn Tyr Met
1   5   10   15
Ala Ala Asp Gly Asp Phe Lys Ile Lys Cys Val Ala Phe Asp
        20   25   30

<210> 30
<211> 45
<212> PRT
<213> human

<400> 30
Pro Phe Tyr Glu Tyr Gly His Arg Leu Pro Leu Gln Met Val Thr His
1   5   10   15
Leu Gln Val Asp Gly Asp Leu Gln Leu Gln Ser Ile Asn Phe Ile Gly
        20   25   30
Gly Gln Pro Leu Arg Pro Gln Gly Pro Pro Met Met Pro
        35   40   45

<210> 31
<211> 23
<212> PRT
<213> nematode

<400> 31
Tyr Pro Val Pro Tyr Glu Ser Gly Leu Ala Asn Gly Leu Pro Val Gly

```
1            5           10              15
Lys Ser·Leu Leu Val Phe Gly
        20


<210> 32
<211> 47
<212> PRT
<213> rat

<400> 32
Ala Tyr Pro Ser Ala Gly Tyr Asn Pro Gln Met Asn Ser Leu Pro Val
1            5           10              15
Met Ala Gly Pro Pro Ile Phe Asn Pro Pro Val Pro Tyr Val Gly Thr
        20          25          30
Leu Gln Gly Gly Leu Thr Ala Arg Arg Thr Ile Ile Ile Lys Gly
        35          40          45


<210> 33
<211> 50
<212> PRT
<213> mouse

<400> 33
Ala Tyr Pro Ala Gly Ser Pro Gly Tyr Asn Pro Pro Gln Met Asn Thr
1            5           10              15
Leu Pro Val Met Thr Gly Pro Pro Val Phe Asn Pro Arg Val Pro Tyr
        20          25          30
Val Gly Ala Leu Gln Gly Gly Leu Thr Leu Pro Arg Thr Ile Ile Ile
        35          40          45
Lys Gly
    50


<210> 34
<211> 47
<212> PRT
<213> human

<400> 34
Pro Tyr Pro Gly Pro Gly His Cys His Gln Gln Leu Asn Ser Leu Pro
1            5           10              15
Thr Met Glu Gly Pro Pro Thr Phe Asn Pro Val Pro Tyr Phe Gly Arg
        20          25          30
Leu Gln Gly Gly Leu Thr Ala Arg Arg Thr Ile Ile Ile Lys Gly
        35          40          45


<210> 35
<211> 49
<212> PRT
<213> nematode

<400> 35
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Thr Val Glu Lys Lys Ala Lys Arg Phe His Val Asn Leu Leu Arg Lys
1   5   10   15
Asn Gly Asp Ile Ser Phe His Phe Asn Pro Arg Phe Asp Glu Lys His
         20   25   30
Val Ile Arg Asn Ser Leu Ala Ala Asn Glu Trp Gly Asn Glu Glu Arg
        35   40   45
Glu

<210> 36
<211> 49
<212> PRT
<213> rat

<400> 36
Tyr Val Leu Pro Thr Ala Lys Asn Leu Ile Ile Asn Phe Lys Val Gly
1   5   10   15
Ser Thr Gly Asp Ile Ala Phe His Met Asn Pro Arg Ile Gly Asp Cys
         20   25   30
Val Val Arg Asn Ser Tyr Met Asn Gly Ser Trp Gly Ser Glu Glu Arg
        35   40   45
Lys

<210> 37
<211> 49
<212> PRT
<213> mouse

<400> 37
Tyr Val Leu Pro Thr Ala Arg Asn Phe Val Ile Asn Phe Lys Val Gly
1   5   10   15
Ser Ser Gly Asp Ile Ala Leu His Leu Asn Pro Arg Ile Gly Asp Ser
         20   25   30
Val Val Arg Asn Ser Phe Met Asn Gly Ser Trp Gly Ala Glu Glu Arg
        35   40   45
Lys

<210> 38
<211> 49
<212> PRT
<213> human

<400> 38
Tyr Val Pro Pro Thr Gly Lys Ser Phe Ala Ile Asn Phe Lys Val Gly
1   5   10   15
Ser Ser Gly Asp Ile Ala Leu His Ile Asn Pro His Gly Asn Gly Thr
         20   25   30
Val Val Arg Asn Ser Leu Leu Asn Gly Ser Trp Gly Ser Glu Glu Lys
        35   40   45
Lys

<210> 39
<211> 48
<212> PRT
<213> nematode

<400> 39
Ile Pro Tyr Asn Pro Phe Gly Ala Gly Gln Phe Phe Asp Leu Ser Ile
1   5   10   15
Arg Cys Gly Thr Asp Arg Phe Lys Val Phe Ala Asn Gly Gln His Leu
        20   25   30
Phe Asp Phe Ser His Arg Phe Gln Ala Phe Gln Arg Val Asp Met Leu
        35   40   45

<210> 40
<211> 48
<212> PRT
<213> rat

<400> 40
Val Ala Tyr Asn Pro Phe Gly Pro Gly Gln Phe Phe Asp Leu Ser Ile
1   5   10   15
Arg Cys Gly Met Asp Arg Phe Lys Val Phe Ala Asn Gly Gln His Leu
        20   25   30
Phe Asp Phe Ser His Arg Phe Gln Ala Phe Gln Met Val Asp Thr Leu
        35   40   45

<210> 41
<211> 48
<212> PRT
<213> mouse

<400> 41
Thr Thr His Asn Pro Phe Gly Pro Gly Gln Phe Phe Asp Leu Ser Ile
1   5   10   15
Arg Cys Gly Leu Asp Arg Phe Lys Val Tyr Ala Asn Gly Gln His Leu
        20   25   30
Phe Asp Phe Ala His Pro Ser Arg Ala Phe Gln Arg Val Asp Thr Leu
        35   40   45

<210> 42
<211> 48
<212> PRT
<213> human

<400> 42
Thr Thr His Asn Pro Phe Gly Pro Gly Gln Phe Phe Asp Leu Ser Ile
1   5   10   15
Arg Cys Gly Leu Asp Arg Phe Lys Val Tyr Ala Asn Gly Gln His Leu
        20   25   30

Phe Asp Phe Ala His Pro Ser Arg Ala Phe Gln Arg Val Asp Thr Leu
    35   40   45

<210> 43
<211> 14
<212> PRT
<213> nematode

<400> 43
Gln Ile Ser Gly Asp Ile Glu Leu Ser Gly Ile Gln Ile Gln
1   5   10

<210> 44
<211> 13
<212> PRT
<213> rat

<400> 44
Glu Ile Lys Gly Asp Ile Thr Leu Ser Tyr Val Gln Ile
1   5   10

<210> 45
<211> 8
<212> PRT
<213> mouse

<400> 45
Glu Ile Asn Gly Asp Ile Thr Leu
1   5

<210> 46
<211> 13
<212> PRT
<213> human

<400> 46
Glu Ile Gln Gly Asp Val Thr Leu Ser Tyr Val Gln Ile
1   5   10

<210> 47
<211> 914
<212> PRT
<213> human

<400> 47
Cys Cys Ala Gly Cys Cys Ala Ala Cys Gly Ala Gly Cys Gly Gly Ala
1   5   10   15
Ala Ala Ala Thr Gly Gly Cys Ala Gly Ala Cys Ala Ala Thr Thr Thr
        20   25   30
Thr Thr Cys Gly Cys Thr Cys Cys Ala Thr Gly Ala Thr Gly Cys Gly

35   40   45
Thr Thr Ala Thr Cys Thr Gly Gly Gly Thr Cys Thr Gly Gly Ala Ala
     50   55   60
Ala Cys Cys Cys Ala Ala Ala Cys Cys Cys Thr Cys Ala Ala Gly Gly
  65   70   75   80
Ala Thr Gly Gly Cys Cys Thr Gly Gly Cys Gly Cys Ala Thr Gly Gly
              85   90   95
Gly Gly Gly Ala Ala Cys Cys Ala Gly Cys Cys Thr Gly Cys Thr Gly
              100   105   110
Gly Gly Gly Cys Ala Gly Gly Gly Gly Gly Cys Thr Ala Cys Cys Cys
     115   120   125
Ala Gly Gly Gly Gly Cys Thr Thr Cys Cys Thr Ala Thr Cys Cys Thr
  130   135   140
Gly Gly Gly Gly Cys Cys Thr Ala Cys Cys Cys Cys Gly Gly Gly Cys
145   150   155   160
Ala Gly Gly Cys Ala Cys Cys Cys Cys Cys Ala Gly Gly Gly Gly Cys
              165   170   175
Thr Thr Ala Thr Cys Cys Thr Gly Gly Ala Cys Ala Gly Gly Cys Ala
              180   185   190
Cys Cys Thr Cys Cys Ala Gly Gly Cys Gly Cys Cys Thr Ala Cys Cys.
       195   200   205
Ala Thr Gly Gly Ala Gly Cys Ala Cys Cys Thr Gly Gly Ala Gly Cys
   210   215   220 ·
Thr Thr Ala Thr Cys Cys Cys Gly Gly Ala Gly Cys Ala Cys Cys Thr
225   230   235   240
Gly Cys Ala Cys Cys Thr Gly Gly Ala Gly Thr Cys Thr Ala Cys Cys
              245   250   255
Cys Ala Gly Gly Gly Cys Cys Ala Cys Cys Cys Ala Gly Cys Gly Gly
              260   265   270
Cys Cys Cys Thr Gly Gly Gly Gly Cys Cys Thr Ala Cys Cys Cys Ala
       275   280   285
Thr Cys Thr Thr Cys Thr Gly Gly Ala Cys Ala Gly Cys Cys Ala Ala
     290   295   300
Gly Thr Gly Cys Cys Cys Cys Cys Gly Gly Ala Gly Cys Cys Thr Ala
305   310   315   320
Cys Cys Cys Thr Gly Cys Cys Ala Cys Thr Gly Gly Cys Cys Cys Cys
              325   330   335
Thr Ala Thr Gly Gly Cys Gly Cys Cys Cys Cys Thr Gly Cys Thr Gly
              340   345   350
Gly Gly Cys Cys Ala Cys Thr Gly Ala Thr Thr Gly Thr Gly Cys Cys
       355   360   365
Thr Thr Ala Thr Ala Ala Cys Cys Thr Gly Cys Cys Thr Thr Thr Gly
   370   ·   375   380
Cys Cys Thr Gly Gly Gly Gly Gly Ala Gly Thr Gly Gly Thr Gly Cys
385   390   395   400
Cys Thr Cys Gly Cys Ala Thr Gly Cys Thr Gly Ala Thr Ala Ala Cys
              405   410   415
Ala Ala Thr Thr Cys Thr Gly Gly Gly Cys Ala Cys Gly Gly Thr Gly
       420   425   430
Ala Ala Gly Cys Cys Cys Ala Ala Thr Gly Cys Ala Ala Ala Cys Ala
     435   440   445
Gly Ala Ala Thr Thr Gly Cys Thr Thr Thr Ala Gly Ala Thr Thr Thr
  450   455   460
Cys Cys Ala Ala Ala Gly Ala Gly Gly Gly Ala Ala Thr Gly Ala Thr
465   470   475   480

                          · 13 ·

Gly Thr Thr Gly Cys Cys Thr Thr Cys Cys Ala Cys Thr Thr Thr Ala
    . 485   490   495

Ala Cys Cys Cys Ala Cys Gly Cys Thr Thr Cys Ala Ala Thr Gly Ala
      500   505   510

Gly Ala Ala Cys Ala Ala Cys Ala Gly Gly Ala Gly Ala Gly Thr Cys
   515   520   525

Ala Thr Thr Gly Thr Thr Thr Gly Cys Ala Ala Thr Ala Cys Ala Ala
   530   535   540

Ala Gly Cys Thr Gly Gly Ala Thr Ala Ala Thr Ala Ala Cys Thr Gly
545   550   555   560

Gly Gly Gly Ala Ala Gly Gly Gly Ala Ala Gly Ala Ala Ala Gly Ala
      565   570   575

Cys Ala Gly Thr Cys Gly Gly Thr Thr Thr Thr Cys Cys Cys Ala Thr
      580   585   590

Thr Thr Gly Ala Ala Ala Gly Thr Gly Gly Gly Ala Ala Ala Cys Cys
      595   600   605

Ala Thr Thr Cys Ala Ala Ala Ala Thr Ala Cys Ala Ala Gly Thr Ala
   610   615   620

Cys Thr Gly Gly Thr Thr Gly Ala Ala Cys Cys Thr Gly Ala Cys Cys
625   630   635   640

Ala Cys Thr Thr Cys Ala Ala Gly Gly Thr Thr Gly Cys Ala Gly Thr
      645   650   655

Gly Ala Ala Thr Gly Ala Thr Gly Cys Thr Cys Ala Cys Thr Thr Gly
      660   665   670

Thr Thr Gly Cys Ala Gly Thr Ala Cys Ala Ala Thr Cys Ala Thr Cys
   675   680   685

Gly Gly Gly Thr Thr Ala Ala Ala Ala Ala Ala Cys Thr Cys Ala Ala
   690   695   700

Thr Gly Ala Ala Ala Thr Cys Ala Gly Cys Ala Ala Ala Cys Thr Gly
705   710   715   720

Gly Gly Ala Ala Thr Thr Thr Cys Thr Gly Gly Thr Gly Ala Cys Ala
      725   730   735

Thr Ala Gly Ala Cys Cys Thr Cys Ala Cys Cys Ala Gly Thr Gly Cys
      740   745   750

Thr Thr Cys Ala Thr Ala Thr Ala Cys Cys Ala Thr Gly Ala Thr Ala
   755   760   765

Thr Ala Ala Thr Cys Thr Gly Ala Ala Ala Gly Gly Gly Gly Cys Ala
   770   775   780

Gly Ala Thr Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
785   790   795   800

Ala Ala Ala Gly Ala Ala Thr Cys Thr Ala Ala Ala Cys Cys Thr Thr
      805   810   815

Ala Cys Ala Thr Gly Thr Gly Thr Ala Ala Ala Gly Gly Thr Thr Thr
      820   825   830

Cys Ala Thr Gly Thr Thr Cys Ala Cys Thr Gly Thr Gly Ala Gly Thr
      835   840   845

Gly Ala Ala Ala Ala Thr Thr Thr Thr Thr Ala Cys Ala Thr Thr Cys
   850   855   860

Ala Thr Cys Ala Ala Thr Ala Thr Cys Cys Cys Thr Cys Thr Thr Gly
865   870   875   880

Thr Ala Ala Gly Thr Cys Ala Thr Cys Thr Ala Cys Thr Thr Ala Ala
      885   890   895

Thr Ala Ala Ala Thr Ala Thr Thr Ala Cys Ala Gly Thr Gly Ala Ala
      900   905   910

Ala Gly